

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	51	object with "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:09
L8	18090	("707").CLAS.	USPAT; USOCR	OR	OFF	2006/08/18 17:29
L9	20	7 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 17:29
L10	1	"materialized view" with container with table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:12
L11	31	"materialized view" and (container with table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:12
L12	31	11 and (attribute or object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:12
L13	19	8 and 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:12
L14	2	object\$oriented with "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:22
L15	405	(creat\$3 or generat\$3 or construct\$3) with ("summary table" or "materialized view")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24

## EAST Search History

L16	14	L15 and ((materialized or "summary table") same( object and attribute))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
L17	122	(creat\$3 or generat\$3) with "materialized view"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
L18	99	L17 and (materialized with view same table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
L19	7	L18 and "container table"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
S1	2	(generat\$3 with "materialized view") same objects	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:11
S2	42	(generat\$3 with "materialized view")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:11
S3	40	S2 and (database with system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:11
S4	4	S3 and (manag\$3 with "materialized view")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:14
S5	1291	oracle.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:14

## EAST Search History

S6	34	S3 not S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:14
S7	30	S6 and object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:15
S8	15	S7 and (operation with view)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:15
S9	14	object with "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 17:29
S10	24	object\$oriented and "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:22
S11	2	("5646992").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/19 15:32
S12	180	"materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:56
S13	23	"materialized view" and snapshot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 18:09
S14	116	"materialized view" and (dbms or "database management system")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 15:33

## EAST Search History

S15	57	("materialized view" and (dbms or "database management system")) and object and class	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 15:33
S16	55	((("materialized view" and (dbms or "database management system")) and object and class) and operation\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 15:34
S17	44	((("materialized view" and (dbms or "database management system")) and object and class) and operation\$1) and row and column	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 15:34
S18	6	("6272502"   "6339769"   "6513034"   "6532470"   "6546402"   "6591266").PN.	USPAT	OR	ON	2004/03/19 18:18
S19	2	((("6272502"   "6339769"   "6513034"   "6532470"   "6546402"   "6591266").PN.) and ("materialized view" and (dbms or "database management system")) and object and class)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:19
S20	6	((("6272502"   "6339769"   "6513034"   "6532470"   "6546402"   "6591266").PN.) and "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:21
S21	1	((("6272502"   "6339769"   "6513034"   "6532470"   "6546402"   "6591266").PN.) and "materialized view" ) and "object oriented"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:22
S22	54	(generat\$3 or creat\$3) with "materialized view"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:56
S24	3	((((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") and (object with column)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:57
S25	16	((((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") not (((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") and (object with column))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/19 18:57

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S28	13	((("materialized view" and (dbms or "database management system"))) and object and class) and operation\$1) and row and column) and refresh	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/21 16:58
S29	17	(((((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") not (((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") and (object with column))) and column and row) and refresh	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 07:57
S30	39	(((((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") not (((generat\$3 or creat\$3) with "materialized view" ) and "object oriented") and (object with column))) and column and row	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 07:58
S31	21	((generat\$3 or creat\$3) with "materialized view" ) and "object oriented"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 07:59
S32	8	"materialized view" with object\$1	USPAT	OR	OFF	2005/04/26 10:54
S33	10	"materialized view" with object\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 10:54
S34	14	((("materialized view" and (dbms or "database management system"))) and object and class) and operation\$1) and row and column) and refresh	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 14:24
S36	1	("6546402").PN.	USPAT; USOCR	OR	OFF	2005/04/26 12:12
S37	31	object with materialized with view	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 14:39

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S38	99	("5956706" "5734884" "5963933" "5584024" "5444842" "5560005" "5960426" "5970482" "5991754" "5261098" "5848405" "6006216" "6023695" "6199063" "5987455" "5724575" "5774692" "5812840" "5826077" "5897632" "5960427" "5581758" "5598559" "5659728" "5822751" "5873093" "5978791" "6003022" "6108651" "5404506" "5729730" "5974407" "5978788" "5418946" "5594899" "5832485" "5974416" "6088705" "6134543" "5276870" "5548755" "5701455" "5765147" "5778355" "5875447" "5950210" "6125360" "5551027" "5600831" "6032144").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 14:39
S39	14	S38 and (materialized with view\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 14:39
S40	0	object\$oriented with materialization with view	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/02 09:21
S41	2	object\$oriented with materializ\$5 with view	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/02 09:22
S42	100	(creat\$3 or generat\$3) with "materialized view"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 17:39
S43	2	((creat\$3 or generat\$3) with "materialized view") same container	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:29
S44	63	((creat\$3 or generat\$3) with "materialized view") same table	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:29

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S46	42	S44 and ((creat\$3 with table) same view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:31
S47	34	S46 and (object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:31
S48	14	S46 and (object with class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:32
S49	0	(creat\$3 or generat\$3) with "materialized view" same (object with class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:57
S50	21	S44 not S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:57
S51	4	S50 and (object with class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/27 22:57
S52	111	(creat\$3 or generat\$3) with "materialized view"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 19:05
S53	90	S52 and (materialized with view same table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 17:40

## EAST Search History

S54	6	S53 and "container table"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
S55	84	S53 not S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 17:43
S56	64	S55 and (dbms or "database management system")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 18:11
S57	11	S56 and (class with attribute)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 17:46
S58	19	S56 and (materialized same object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 19:04
S60	373	(creat\$3 or generat\$3 or construct\$3) with ("summary table" or "materialized view")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 19:05
S61	12	S60 and ((materialized or "summary table") same( object and attribute))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 18:24
S62	0	("materialized view" or "summary table") with nested same table same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:11



## EAST Search History

S63	0	("materialized view" or "summary table") same "nested table" same object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:12
S64	0	("materialized view" or "summary table") same "nested table"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:12
S65	6	("materialized view" or "summary table") same (nested with table)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:12
S66	3	S65 and object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/19 20:12


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### 1 [Object subclass hierarchy in SQL: a simple approach](#)



Chenho Kung

 July 1990 **Communications of the ACM**, Volume 33 Issue 7

Publisher: ACM Press

Full text available: pdf(1.01 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The object subclass hierarchy is a useful way of modeling property and behavior inheritance. It can be implemented on a relational DBMS using views.

**Keywords:** inclusion constraints, normal forms, object-oriented, query processing, relational databases

### 2 [Modeling behavior, a step towards defining functionally correct views of complex objects in concurrent engineering](#)



Fawaz S. Al-Anzi, David L. Spooner

 November 1994 **Proceedings of the third international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.04 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multidisciplinary concurrent engineering needs to model and manage different views of complex designs. Previous attempts to address the problem of creating views of complex objects in object oriented database systems focus on the structure of complex objects; little attention is paid to how complex object behavior is effected when creating views. We believe that designing functionally correct behavior for a complex object should be a major consideration when defining a view to guarantee cor ...

### 3 [Heraclitus: elevating deltas to be first-class citizens in a database programming language](#)



Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

 September 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(3.76 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditional database systems provide a user with the ability to query and manipulate one

database state, namely the current database state. However, in several emerging applications, the ability to analyze "what-if" scenarios in order to reason about the impact of an update (before committing that update) is of paramount importance. Example applications include hypothetical database access, active database management systems, and version management, to name a few. The central th ...

**Keywords:** active databases, deltas, execution model for rule application, hypothetical access, hypothetical database state

#### 4 A predicate-based caching scheme for client-server database architectures

Arthur M. Keller, Julie Basu

January 1996 **The VLDB Journal — The International Journal on Very Large Data**

**Bases**, Volume 5 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(162.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We propose a new client-side data-caching scheme for relational databases with a central server and multiple clients. Data are loaded into each client cache based on queries executed on the central database at the server. These queries are used to form predicates that describe the cache contents. A subsequent query at the client may be satisfied in its local cache if we can determine that the query result is entirely contained in the cache. This issue is called *cache completeness*. A separ ...

**Keywords:** Cache completeness, Cache currency, Caching, Multiple clients, Relational databases

Results 1 - 4 of 4

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(['materialized view' &lt;near&gt; object)&lt;in&gt;metadata)

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## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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20-22 Aug. 1998 Page(s):218 - 229  
Digital Object Identifier 10.1109/COOPIS.1998.706200  
[AbstractPlus](#) | Full Text: [PDF](#)(152 KB) IEEE CNF  
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- ☐ 2. **Using object deputy model to prepare data for data warehousing**  
Zhiyong Peng; Qing Li; Feng, L.; Xuhui Li; Junqiang Liu;  
[Knowledge and Data Engineering, IEEE Transactions on](#)  
Volume 17, Issue 9, Sept. 2005 Page(s):1274 - 1288  
Digital Object Identifier 10.1109/TKDE.2005.154  
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- ☐ 3. **Transaction-centric split synchronization mechanism for mobile e-busine**  
Mi-Seon Choi; Young-Kuk Kim; Juno Chang;  
[Data Engineering Issues in E-Commerce, 2005. Proceedings. International Wc](#)  
9 April 2005 Page(s):112 - 118  
Digital Object Identifier 10.1109/DEEC.2005.24  
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- ☐ 4. **Issues of object-relational view design in data warehousing environment**  
Gopalkrishnam, V.; Qing Li; Karlapalem, K.;  
[Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on](#)  
Volume 3, 11-14 Oct. 1998 Page(s):2732 - 2737 vol.3  
Digital Object Identifier 10.1109/ICSMC.1998.725074  
[AbstractPlus](#) | Full Text: [PDF](#)(448 KB) IEEE CNF  
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Teuhola, J.;  
[Database and Expert Systems Applications, 1996. Proceedings., Seventh Inter](#)  
[Workshop on](#)  
9-10 Sept. 1996 Page(s):476 - 481

Digital Object Identifier 10.1109/DEXA.1996.558597

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- ☐ **6. Embedded materialized views: bridging physical and computational work collaboration**  
Konomi, S.;  
[Database Applications in Non-Traditional Environments, 1999. \(DANTE '99\) Proceedings. International Symposium on](#)  
1999 Page(s):51 - 58  
Digital Object Identifier 10.1109/DANTE.1999.844941  
[AbstractPlus](#) | Full Text: [PDF\(360 KB\)](#) IEEE CNF  
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- ☐ **7. Incremental fusion of XML fragments through semantic identifiers**  
El-Sayed, M.; Rundensteiner, E.A.; Mani, M.;  
[Database Engineering and Application Symposium, 2005. IDEAS 2005. 9th International Symposium on](#)  
25-27 July 2005 Page(s):369 - 378  
Digital Object Identifier 10.1109/IDEAS.2005.34  
[AbstractPlus](#) | Full Text: [PDF\(288 KB\)](#) IEEE CNF  
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- ☐ **8. Incremental maintenance of nested relational views**  
Jixue Liu; Vincent, M.; Mohania, M.;  
[Database Engineering and Applications, 1999. IDEAS '99. International Symposium on](#)  
2-4 Aug. 1999 Page(s):197 - 205  
Digital Object Identifier 10.1109/IDEAS.1999.787268  
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- ☐ **9. Augmented inherited multi-index structure for maintenance of materialized views**  
Kuno, H.A.; Rundensteiner, E.A.;  
[Research Issues in Data Engineering, 1996. Interoperability of Nontraditional \[Conference Proceedings\]. Sixth International Workshop on](#)  
26-27 Feb. 1996 Page(s):128 - 137  
Digital Object Identifier 10.1109/RIDE.1996.492250  
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